

Claims

[c1] What is claimed is:

1. An electrostatic discharge protection circuit for receiving an electrostatic discharge current generated by a first printed circuit board and conducted to a first grounding line of the first printed circuit board, the electrostatic discharge protection circuit comprising:

a flexible cable comprising a connecting line having one end connected to the first grounding line; and

a second printed circuit board comprising:

a fixed component;

an electrostatic discharge protection path electrically connected between another end of the connecting line and the fixed component; and

a second grounding line electrically connected to the fixed component.

[c2] 2. The electrostatic discharge protection circuit of claim 1 wherein the fixed component is a screw.

[c3] 3. The electrostatic discharge protection circuit of claim 1 wherein the first printed circuit board is fixed on a tray of an optical disk drive and the second printed circuit board is fixed in a housing of the optical disk drive.

- [c4] 4. The electrostatic discharge protection circuit of claim 3 wherein the optical disk drive is a slim optical disk drive.
- [c5] 5.The electrostatic discharge protection circuit of claim 1 wherein the width of the electrostatic discharge protection path is greater than the second ground line.
- [c6] 6.The electrostatic discharge protection circuit of claim 1 wherein the flexible cable is a U-shaped flexible cable.
- [c7] 7.An electrostatic discharge protection circuit for receiving an electrostatic discharge current generated by an electric appliance comprising:
a fixed component; and
an electrostatic discharge protection path on a circuit board for receiving the electrostatic discharge current and conducting the electrostatic discharge current to the fixed component directly.
- [c8] 8.The electrostatic discharge protection circuit of claim 7 further comprising a flexible cable connected between the electric appliance and the circuit board, wherein the flexible cable comprises a connecting line for conducting the electrostatic discharge current to the circuit board.
- [c9] 9.The electrostatic discharge protection circuit of claim 8

wherein the flexible cable is a U-shaped flexible cable.

[c10] 10.The electrostatic discharge protection circuit of claim 7 wherein the fixed component is a screw.

[c11] 11.The electrostatic discharge protection circuit of claim 7 wherein the electric appliance is fixed on a tray of an optical disk drive and the circuit board is fixed in a housing of the optical disk drive.

[c12] 12.The electrostatic discharge protection circuit of claim 11 wherein the optical disk drive is a slim optical disk drive.

[c13] 13.The electrostatic discharge protection circuit of claim 7 wherein the width of the electrostatic discharge protection path is greater than 0.15 mm.